

IN THE CLAIMS

Please amend Claims 10, 12-18, 21 and 22, to read as follows.

1-9. (Canceled)

10. (Currently Amended) An inkjet print head substrate on which is provided a print head assembly, the print head assembly comprising:

an ink supply opening;

an array of printing elements provided along one long side of the ink supply opening and divided into a plurality of groups of printing elements;

an array of driving circuits provided along one long side of the ink supply opening and arranged to correspond to the printing elements, respectively, for driving the corresponding printing elements, respectively;

a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group; and

data supply means for supplying driving data to the driving circuits,

wherein the selection circuit has common lines through which electric signals are supplied for driving the plurality of groups of printing elements of the array by selecting a printing element to be driven in each group, ~~and~~

wherein the data supply means comprises a plurality of shift registers, the plurality of shift registers are provided at one side with respect to extension lines extending from both longitudinal ends of the ink supply opening, and each shift register is arranged to supply driving data to one or more of the driving circuits for driving the corresponding

printing elements, of the plurality of groups of printing elements, which are closer than non-corresponding printing elements to the shift register,

wherein another array of printing elements, another array of driving circuits, and another selection circuit are provided along another long side of the ink supply opening, and

wherein the data supply means further comprises another plurality of shift registers, provided at another side with respect to the extension lines.

11. (Previously Presented) A print head substrate according to claim 10, wherein a plurality of the print head assemblies are provided on the substrate.

12. (Currently Amended) A print head substrate according to claim 10, wherein the ~~plurality~~ pluralities of shift registers receive clock and data signals, and the data supply means further comprises a plurality of latches for latching output signals from the shift registers, and AND circuits for deriving a logical product of outputs from the latches and a driving signal.

13. (Currently Amended) A print head substrate according to claim 10, wherein there are two shift registers arranged at respective ends of the printing element ~~array~~ arrays.

14. (Currently Amended) A print head substrate according to claim 10, wherein the ~~array~~ arrays of printing elements ~~extends~~ extend alongside an ink supply port.

15. (Currently Amended) A print head substrate according to claim 12, wherein the ~~array~~ arrays of printing elements ~~extends~~ extend alongside an ink supply port.

16. (Currently Amended) A print head substrate according to claim 10, wherein said selection ~~circuit is~~ circuits are arranged at one end of the printing element ~~array~~ arrays.

17. (Currently Amended) A print head substrate according to claim 10, wherein said substrate is a rectangle and the printing element ~~array extends~~ arrays extend along the length of the rectangle.

18. (Currently Amended) An inkjet print head comprising an inkjet print head substrate on which is provided a print head assembly, the print head assembly comprising:

an ink supply opening;

an array of printing elements provided along one long side of the ink supply opening and divided into a plurality of groups of printing elements;

an array of driving circuits provided along one long side of the ink supply opening and arranged to correspond to the printing elements, respectively, for driving the corresponding printing elements, respectively;

a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven in each group; and

data supply means for supplying driving data to the driving circuits,

wherein the selection circuit has common lines through which electric signals are supplied for driving the plurality of groups of printing elements of the array by selecting a printing element to be driven in each group, ~~and~~

wherein the data supply means comprises a plurality of shift registers, the plurality of shift registers are provided at one side with respect to extension lines extending from both longitudinal ends of the ink supply opening, and each shift register is arranged to supply driving data to one or more of the driving circuits for driving the corresponding printing elements, of the plurality of groups of printing elements, which are closer than non-corresponding printing elements to the shift register

wherein another array of printing elements, another array of driving circuits, and another selection circuit are provided along another long side of the ink supply opening, and

wherein the data supply means further comprises another plurality of shift registers, provided at another side with respect to the extension lines.

19. (Previously Presented) A print head according to claim 18, wherein the print head is an ink jet head for printing data by discharging ink.

20. (Previously Presented) A print head according to claim 19, wherein the print head comprises electrothermal transducing means for generating thermal energy to cause ink discharge.

21. (Currently Amended) An inkjet print head cartridge comprising:

an inkjet print head having an inkjet print head substrate on which is provided a print head assembly, the print head assembly comprising an ink supply opening, an array of printing elements provided along one long side of the ink supply opening and divided into a plurality of groups of printing elements, an array of driving circuits provided along one long side of the ink supply opening and arranged to correspond to the printing elements, respectively, for driving the corresponding printing elements, respectively, a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and data supply means for supplying driving data to the driving circuits, wherein the selection circuit has common lines through which electric signals are supplied for driving the plurality of groups of printing elements of the array by selecting a printing element to be driven from each group, ~~and~~ wherein the data supply means comprises a plurality of shift registers, the plurality of shift registers are provided at one side with respect to extension lines extending from both longitudinal ends of the ink supply opening, and each shift register is arranged to supply driving data to one or more of the driving circuits for driving the corresponding printing elements, of the plurality of groups of printing elements, which are closer than non-corresponding printing elements to the shift register, wherein another array of printing elements, another array of driving circuits, and another selection circuit are provided along another long side of the ink supply opening, and wherein the data supply means further comprises another plurality of shift registers, provided at another side with respect to the extension lines; and

an ink tank for storing ink to be supplied to the inkjet print head.

22. (Currently Amended) A printing apparatus for printing data, the apparatus comprising:

an inkjet print head having an inkjet print head substrate on which is provided a print head assembly, the print head assembly comprising an ink supply opening, an array of printing elements provided along one long side of the ink supply opening and divided into a plurality of groups of printing elements, an array of driving circuits provided along one long side of the ink supply opening and arranged to correspond to the printing elements, respectively, for driving the corresponding printing elements, respectively, a selection circuit common to the plurality of groups of printing elements of the array for selecting a printing element to be driven from each group, and data supply means for supplying driving data to the driving circuits, wherein the selection circuit has common lines through which electric signals are supplied for driving the plurality of groups of printing elements of the array by selecting a printing element to be driven from each group, ~~and~~ wherein the data supply means comprises a plurality of shift registers, the plurality of shift registers are provided at one side with respect to extension lines extending from both longitudinal ends of the ink supply opening, and each shift register is arranged to supply driving data to one or more of the driving circuits for driving the corresponding printing elements, of the plurality of groups of printing elements, which are closer than non-corresponding printing elements to the shift register, wherein another array of printing elements, another array of driving circuits, and another selection circuit are provided along another long side of the ink supply opening, and wherein the data supply means further comprises another plurality of shift registers, provided at another side with respect to the extension lines; and

driving data generation means for generating a data signal for each path of the shift registers.